

# SocketModem® HSDPA

## Embedded Cellular Modem



The SocketModem® HSDPA cellular modem is a complete, ready-to-integrate communications device that offers standards-based tri-band UMTS/HSDPA performance. This quick-to-market communications device allows developers to add wireless communication to products with a minimum of development time and expense. The SocketModem HSDPA cellular modem is based on industry-standard open interfaces and utilizes Multi-Tech's Universal Socket design.

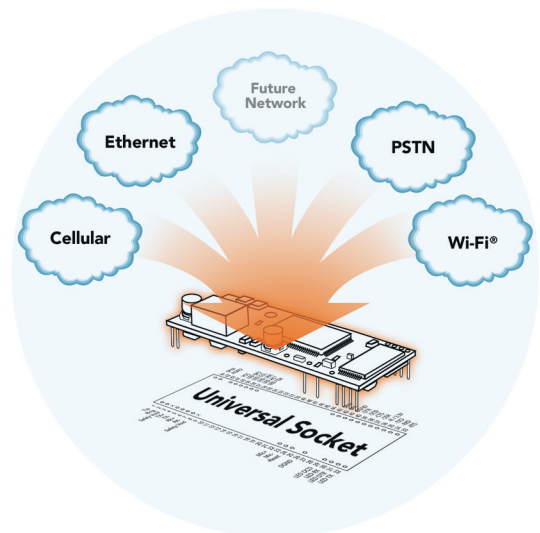
### Features

- Tri-band UMTS/HSDPA 3.6
- Quad-band GSM/GPRS/EDGE
- Supports Short Message Service such as text and PDU mode, point-to-point (MT/MO) and cell broadcast
- GSM circuit-switched data up to 9600 bps and UMTS circuit-switched data up to 64K bps
- Universal Socket connectivity
- MMCX antenna connector and SIM socket
- USB 2.0 full speed interface or standard serial interface
- Serial interface supports DTE speeds to 921.6K bps\*
- FCC, PTCRB and R&TTE certified
- AT command compatible
- Two-year warranty

\* Effective throughput is 700 - 750K bps.

### Universal Socket Benefits

- Interchangeable communications devices
- Quick-to-market
- Global approvals
- Easy migration to future networks



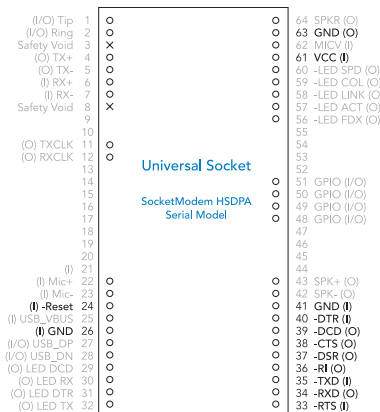
## Highlights

**Applications.** With download packet data speeds over 1M bps, the SocketModem HSDPA cellular modem will support highly data-intensive applications such as remote video surveillance and other multimedia applications where you are sending digital images, web pages and photographs.

**Integration Reduces Space, Power and Cost.** The SocketModem HSDPA cellular modem integrates the controller, RF transceiver, and antenna interface in one communications device. This integration requires low power, low real estate and provides an overall reduction in costs.

**Reduces Development Time.** The SocketModem HSDPA cellular modem enhances your product while you focus on developing its core features. It actually provides faster time-to-market because it relieves the burden and expense of obtaining PTCRB and RF approvals.

**SocketModem HSDPA Pin-Out.** The SocketModem HSDPA cellular modem interfaces easily with existing products through a standard serial communication channel or USB interface. The serial DTE channel is capable of transfer speeds to 920K bps and can be interfaced directly to a UART or microcontroller. The complete on-board RF transceiver interfaces with an antenna for direct connection to wireless SMS, circuit-switched dial-up, or packet data networks.



**Universal Socket Connectivity.** Multi-Tech's Universal Socket is a flexible, comm-port architecture that provides cellular, Ethernet, PSTN or Wi-Fi network access with interchangeable communications devices. This means you can utilize one system design and populate it with your connectivity device of choice accommodating multiple connectivity requirements. In addition, you are assured a seamless migration to future technologies.

## Ordering Information

Product	Description	Region
MTSMC-H	Tri-band HSDPA Serial Modem	Global
MTSMC-H-U	Tri-band HSDPA USB Modem	Global

Made in Mounds View, MN, U.S.A.

Features and specifications are subject to change without notice.

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**Developer's Kit.** The Developer's Kit allows you to plug in the communications device and use it for testing, programming and evaluation. The kit includes one development board with RS-232 DB-25 connector, USB connector, universal power supply, antenna, RS-232 and USB cables.

## Specifications

### General Features

Tri-band UMTS/HSDPA (WCDMA/FDD), 850/1900/2100 MHz, UMTS/HSDPA 3GPP release 5  
HSDPA: 3.6M bps max. download, 384K bps max. upload  
UMTS: 384K max. download, 384K bps max. upload  
Quad-band GSM/GPRS/EDGE, 850/900/1800/1900 MHz

### Packet Data Features

HSDPA: UE CAT [1-6], 11, 12 supported, Compressed mode according to 3GPP TS25.212  
EDGE: Class 10, Modulation & coding schemes MCS 1-9, Mobile station Class B  
GPRS: Class 10, full PBCCH support, coding schemes CS 1-4, Mobile station Class B

### Circuit Switched Data Features

GSM: Asynchronous, non-transparent up to 9600 bps (V.110)  
UMTS: Asynchronous, non-transparent up to 64K bps (V.120)

### SMS Features

Text & PDU, Point-to-Point (MO and MT), cell broadcast

### Connectors

Antenna: MMCX  
SIM: Standard 3V SIM receptacle

### USB Interface

USB 2.0 full speed  
CDC ACM compliant  
NDIS driver available (XP and Vista)

### Power Requirements

5VDC; 930mA maximum (HSDPA mode)  
See developers guide for additional requirements

### Physical Description

3.1" L x 1.4" W x 0.5" H; 1 oz.  
(7.8 cm x 3.5 cm x 1.2 cm; 28 g)

### Operating Environment

Normal Operation: -30° to +50° C

### Certifications

CE Mark, R&TTE  
EMC: FCC Part 22, 24, EN 301 489-1, EN 301 489-7, RSS 132, 133  
Safety: UL 60950-1, EN 60950-1, AS/NZS 60950:2000  
Network: PTCRB

#### World Headquarters

Tel: (763) 785-3500  
(800) 328-9717  
www.multitech.com

#### EMEA Headquarters

Multi-Tech Systems (EMEA)  
United Kingdom  
Tel: +(44) 118-959 7774

Multi-Tech Systems (EMEA)  
France  
Tel: +(33) 1 49 19 22 06

